

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"20050084949"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/11 11:08
S2	1776	435/266.ccls. or 435/176.ccls. or 435/299.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/20 10:34
S3	4221	435/266.ccls. or 435/176.ccls. or 435/299.1.ccls. or 435/177.ccls. or 435/177.ccls. or 435/178.ccls. or 435/179.ccls. or 435/180.ccls..	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/10 13:07
S4	277	435/266.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/20 10:34
S5	904	435/176.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/20 10:34
S6	660	435/299.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/03/20 10:39
S7	304	S3 and carbon and (bond\$3 or silcate or tricalcium or tetracalcium) and (iron or manganese or nickel or copper or titanium)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/20 12:55
S8	1	shareefdeen.in. and zarook.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/20 11:06
S9	1	herner.in. and brian.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/20 11:06
S10	2	herner.in. and shareefdeen.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/20 11:06
S14	3	S7 and (hydrophobic with (coating or outside or exterior or film or layer)) and (hydrophilic with (interior or nucle\$2 or center))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/20 11:09

## EAST Search History

S15	15	S3 and (hydrophobic with (coating or outside or exterior or film or layer)) and (hydrophilic with (interior or nucle\$2 or center))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/20 11:29
S16	2	"6358729".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/20 11:32
S20	11	"5869323".pn. or "5206206".pn. or "5232676".pn. or "5534154".pn. or "5747331".pn. or "5855797".pn. or "5869323".pn. or "5981272".pn. or "6019810".pn. or "6056934".pn. or "6271020".pn. or "6358729".pn.	US-PGPUB; USPAT	OR	OFF	2006/04/11 14:07
S21	1	S20 and (hydrophobic with (coating or outside or exterior or film or layer)) and (hydrophilic with (interior or nucle\$2 or core or center))	US-PGPUB; USPAT	OR	OFF	2006/03/20 12:54
S22	1	S20 and hydrophobic and hydrophilic	US-PGPUB; USPAT	OR	OFF	2006/03/20 12:55
S23	1	S20 and hydrophobic and hydrophilic	US-PGPUB; USPAT	OR	ON	2006/03/20 12:56
S24	0	S20 and carbon and (bond\$3 or silcate or tricalcium or tetracalcium) and (iron or manganese or nickel or copper or titanium)	US-PGPUB; USPAT	OR	ON	2006/03/20 12:56
S25	5	S20 and carbon and (iron or manganese or nickel or copper or titanium)	US-PGPUB; USPAT	OR	ON	2006/03/20 13:08
S26	1	biosorbens	US-PGPUB; USPAT	OR	ON	2006/03/20 13:08
S27	26	"497214"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/20 13:23
S28	26	"0076898"	EPO; JPO; DERWENT	OR	ON	2006/03/20 13:23
S29	20	"76898"	EPO; JPO; DERWENT	OR	ON	2006/03/20 13:23
S30	6	Basys.as.	US-PGPUB; USPAT	OR	OFF	2006/03/20 13:40
S31	4	biorem.as.	US-PGPUB; USPAT	OR	OFF	2006/03/20 13:46
S32	0	corain.as.	US-PGPUB; USPAT	OR	OFF	2006/03/20 13:47

## EAST Search History

S33	223	impianti.as.	US-PGPUB; USPAT	OR	OFF	2006/03/20 13:47
S34	37	impianti.as. and filter	US-PGPUB; USPAT	OR	OFF	2006/03/20 13:50
S35	4	"126091"	EPO; JPO; DERWENT	OR	OFF	2006/03/20 13:51
S36	13	"2076569"	EPO; JPO; DERWENT	OR	OFF	2006/03/20 13:51
S37	4261	435/266.ccls. or 435/176.ccls. or 435/299.1.ccls. or 435/177.ccls. or 435/177.ccls. or 435/178.ccls. or 435/179.ccls. or 435/180.ccls..	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/10 13:17
S38	83	S37 and ((grain or particle) same pore same (metallic or metal or iron or manganese or nickel or copper or titanium))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 13:09
S39	25	S37 and filter and ((grain or particle) same pore same (metallic or metal or iron or manganese or nickel or copper or titanium))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 13:15
S40	20	"76898"	EPO; JPO; DERWENT	OR	ON	2006/04/10 13:14
S41	2316	filter same (grain or granular) same (metallic or metal or iron or manganese or nickel or copper or titanium)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 13:16
S42	4	S41 and S37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 13:16
S43	4226	435/266.ccls. or 435/176.ccls. or 435/299.1.ccls. or 435/177.ccls. or 435/177.ccls. or 435/178.ccls. or 435/179.ccls. or 435/180.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/10 13:17
S44	4226	435/266.ccls. or 435/176.ccls. or 435/299.1.ccls. or 435/177.ccls. or 435/177.ccls. or 435/178.ccls. or 435/179.ccls. or 435/180.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/10 13:20
S45	6322	435/266.ccls. or 435/294.1.ccls. or 435/262.ccls. or "210151".ccls. or 210/615.ccls. or 96/266.ccls. or 95/71.ccls. or 95/195.ccls. or 95/224.ccls. or 95/205.ccls. or S44	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 11:37
S46	6	S45 and (filter same (granular or grain) same (metallic or metal or iron or manganese or nickel or copper or titanium))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 13:24

## EAST Search History

S47	242	S45 and (cataly\$3 with (metallic or metal or iron or manganese or nickel or copper or titanium))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 13:31
S48	23	S45 and (cataly\$3 with coat\$3 with (metallic or metal or iron or manganese or nickel or copper or titanium))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 13:31
S49	3	S45 and (cataly\$3 with coat\$3 with (particle or granular or grain) with (metallic or metal or iron or manganese or nickel or copper or titanium))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 13:33
S50	10	S45 and (cataly\$3 same coat\$3 same (particle or granular or grain) with (metallic or metal or iron or manganese or nickel or copper or titanium))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 13:34
S51	13	S45 and (cataly\$3 same coat\$3 same (particle or granular or grain) same (metallic or metal or iron or manganese or nickel or copper or titanium))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 13:59
S52	7	("3856913"   "4293333"   "5007620"   "5332559"   "5413624"   "5672194"   "6159726").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:55
S53	1	"20020170858"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 13:55
S54	102	S45 and (iron with sulfide)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 14:01
S55	22	S45 and ((iron or metal or metallic) with coat\$3) and (iron with sulfide)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 14:30
S56	2	"6761823".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 14:30
S57	19	("20020185437"   "3738932"   "3762550"   "4049545"   "4430228"   "4680126"   "5180491"   "5425858"   "5464598"   "5637220"   "5705078"   "5914441"   "5928514"   "5954969"   "6043022"   "6207047"   "6214088"   "6284530"   "6544421").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 14:40

## EAST Search History

S58	40	(coat\$3 with (metallic or metal or iron)) and biofilter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 14:41
S59	397	(coat\$3 with (metallic or metal or iron)) and biofil\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 14:41
S60	98	(coat\$3 with (metallic or metal or iron)) and (biofilter or biofiltration or "bio filter" or bio-filter or bio-filtration or "bio filtration")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 15:59
S61	3	(coat\$3 with (metallic or metal or iron)) same (biofilter or biofiltration or "bio filter" or bio-filter or bio-filtration or "bio filtration")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 14:42
S62	3	("3772901"   "4184947"   "4414115").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/10 14:57
S63	5	("5876606").URPN.	USPAT	OR	OFF	2006/04/10 15:02
S64	1	"5876606".pn.	USPAT	OR	OFF	2006/04/10 15:02
S65	24	(powder with (metallic or metal or iron)) and (biofilter or biofiltration or "bio filter" or bio-filter or bio-filtration or "bio filtration")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 15:59
S66	26	(powder\$3 with (metallic or metal or iron)) and (biofilter or biofiltration or "bio filter" or bio-filter or bio-filtration or "bio filtration")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/10 15:59
S67	11	("5206206").URPN.	USPAT	OR	OFF	2006/04/10 16:06
S68	10	"414095"	EPO; JPO; DERWENT	OR	OFF	2006/04/11 11:17
S69	2	"6358729".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/11 11:17
S70	4227	435/266.ccls. or 435/176.ccls. or 435/299.1.ccls. or 435/177.ccls. or 435/177.ccls. or 435/178.ccls. or 435/179.ccls. or 435/180.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/11 11:38
S71	6993	435/266.ccls. or 435/294.1.ccls. or 435/262.ccls. or 210/151.ccls. or 210/615.ccls. or 96/266.ccls. or 95/71.ccls. or 95/195.ccls. or 95/224.ccls. or 95/205.ccls. or S70	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 11:38

## EAST Search History

S72	148	S71 and (thiobacillus or thioparus or begiataoa or thiothrix or feroxidants)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 11:44
S73	8	S71 and (thiobacillus or thioparus or begiataoa or thiothrix or feroxidants) and (iron with coat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 13:29
S74	2	S71 and (thiobacillus or thioparus or begiataoa or thiothrix or feroxidants) and (iron with layer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 11:50
S75	31	S71 and (((fly with ash) or (silicon with dioxide) or silicate) with (buffer or alkaline))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:17
S76	2	"20010006809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 13:09
S77	4227	435/266.ccls. or 435/176.ccls. or 435/299.1.ccls. or 435/177.ccls. or 435/177.ccls. or 435/178.ccls. or 435/179.ccls. or 435/180.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/11 13:29
S78	6993	435/266.ccls. or 435/294.1.ccls. or 435/262.ccls. or 210/151.ccls. or 210/615.ccls. or 96/266.ccls. or 95/71.ccls. or 95/195.ccls. or 95/224.ccls. or 95/205.ccls. or S77	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 13:29
S79	1	S78 and (thiobacillus or thioparus or begiataoa or thiothrix or feroxidants) and "20010006809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 13:29
S80	11	"5869323".pn. or "5206206".pn. or "5232676".pn. or "5534154".pn. or "5747331".pn. or "5855797".pn. or "5869323".pn. or "5981272".pn. or "6019810".pn. or "6056934".pn. or "6271020".pn. or "6358729".pn.	US-PGPUB; USPAT	OR	OFF	2006/04/11 14:07
S81	0	S80 and clinoptilolit\$4	US-PGPUB; USPAT	OR	ON	2006/04/11 14:07
S82	0	S76 and clinoptilolit\$4	US-PGPUB; USPAT	OR	ON	2006/04/11 14:07
S83	2	"20050084949"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/04/11 14:07
S84	1	S83 and clinoptilolit\$4	US-PGPUB; USPAT	OR	ON	2006/04/11 14:09

## EAST Search History

S85	9	S78 and clinoptilolite	US-PGPUB; USPAT	OR	ON	2006/04/11 14:09
S86	9	S78 and clinoptilolite	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 14:51
S87	1	S78 and (aggregate with gas with expansion)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:16
S88	46	S78 and (gas with expansion)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 14:56
S89	8	S78 and (rotary with kiln)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 14:56
S90	0	S78 and ((silica or alumina) with aggregate with expan\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:16
S91	1	S78 and ((silica or alumina) with expan\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:16
S92	1	S78 and (aggregate same (air or gas\$3) same expansion)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:16
S93	4	S78 and (((fly with ash) or (silicon with dioxide) or silicate) with (buffer))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:18
S94	6	S78 and (((fly with ash) or (silicon with dioxide) or silicate) with (buffer\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:19
S95	2	S78 and (((fly with ash) or (silicon with dioxide) or silicate or alkaline) with (buffer\$3)) and (biofilter or biofiltration or "bio filter" or bio-filter or bio-filtration or "bio filtration")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:20
S96	12	(((fly with ash) or (silicon with dioxide) or silicate or alkaline) with (buffer\$3)) and (biofilter or biofiltration or "bio filter" or bio-filter or bio-filtration or "bio filtration")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:23

## EAST Search History

S97	1	((fly with ash) or silicate) with (buffer\$3)) and (biofilter or biofiltration or "bio filter" or bio-filter or bio-filtration or "bio filtration")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:24
S98	2132	((fly with ash) or silicate) with (buffer\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:24
S99	114421	((fly with ash) or silicate) with (buffer\$3)) and "435".clas. or "210".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:24
S10 0	129	((fly with ash) or silicate) with (buffer\$3)) and ("435".clas. or "210".clas.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:24
S10 1	3	((fly with ash) with (buffer\$3)) and ("435".clas. or "210".clas.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:38
S10 2	127	((silicate) with (buffer\$3)) and ("435".clas. or "210".clas.)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:34
S10 3	23	((silicate) with (buffer\$3)) and ("435".clas. or "210".clas.) and (biofilter or biofiltration or "bio filter" or bio-filter or bio-filtration or "bio filtration" or wastewater or (waste with stream))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:41
S10 4	3	"7001519".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:38
S10 5	71	((silicon) with (buffer\$3)) and ("435".clas. or "210".clas.) and (biofilter or biofiltration or "bio filter" or bio-filter or bio-filtration or "bio filtration" or wastewater or (waste with stream))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:41
S10 6	60	((silicon) with (buffer\$3)) and ("435".clas. or "210".clas.) and (biofilter or biofiltration or "bio filter" or bio-filter or bio-filtration or "bio filtration" or wastewater)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:41
S10 7	2	S106 not mirkin.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/11 15:42